# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 02/09/2022 09:14 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/20/2022 09:34 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 32272 | Expiration Date: | 09/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123904 | -1 | 3.10 | 123888 | 3.05 |
| Blue | F | SSC | 125000 | 124060 | -1 | 3.78 | 124501 | 3.75 |
| Blue | E | FITC | 13602 | 12982 | -5 | 3.65 | 364 | 13.48 |
| Blue | D | PE | 24891 | 23994 | -4 | 3.38 | 569 | 10.88 |
| Blue | B | PerCP-Cy5-5 | 33972 | 32559 | -5 | 4.16 | 925 | 14.78 |
| Blue | A | PE-Cy7 | 22865 | 22300 | -3 | 6.25 | 463 | 30.85 |
| Red | C | APC | 47198 | 45885 | -3 | 3.61 | 1583 | 11.37 |
| Red | A | APC-Cy7 | 26454 | 25143 | -5 | 4.34 | 711 | 12.53 |
| Violet | B | V450 | 6737 | 6437 | -5 | 4.92 | 450 | 12.55 |
| Violet | A | V500 | 29317 | 27593 | -6 | 4.68 | 944 | 9.24 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23828 | 4.40 | 534 | -1 | N/A | N/A | Pass |
| Blue | F | SSC | 55420 | 3.23 | 517 | -4 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 54.62 | 484 | 0 | 0.0471 | 133 | Pass |
| Blue | D | PE | 110 | 38.51 | 487 | 1 | 0.3914 | 274 | Pass |
| Blue | B | PerCP-Cy5-5 | 144 | 41.51 | 579 | 0 | 0.0215 | 94 | Pass |
| Blue | A | PE-Cy7 | 76 | 81.12 | 623 | 2 | 0.0223 | 3 | Pass |
| Red | C | APC | 331 | 25.81 | 572 | 0 | 0.0313 | 265 | Pass |
| Red | A | APC-Cy7 | 132 | 35.69 | 549 | -2 | 0.0068 | 1731 | Pass |
| Violet | B | V450 | 76 | 49.42 | 444 | -6 | 0.0459 | 1998 | Pass |
| Violet | A | V500 | 110 | 32.43 | 462 | -7 | 0.0235 | 858 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 02/09/2022 09:14 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.64 - 71.46 | N/A | N/A | -31.57 | -31.32 | 1.15 |
| Blue | 20.35 | 16.28 - 24.42 | 1.29 | 1.03 - 1.55 | 0.00 | 0.00 | 1.44 |
| Red | 15.40 | 13.90 - 20.86 | N/A | N/A | 29.74 | 29.94 | 1.23 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.93

## Threshold

Threshold (FSC): 9886

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments